

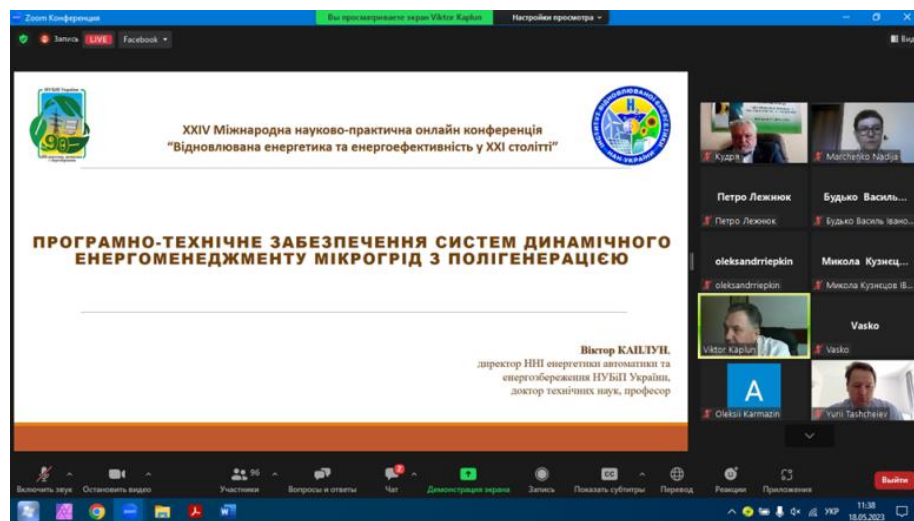
The XXIV International Scientific and Practical Online Conference «**Renewable Energy and Energy Efficiency of the XXI Century**» was held online on May 18–19, 2023.

Organizers of Conference were Institute of Renewable Energy of the National Academy the Science of Ukraine, National Technical University of Ukraine “Igor Sikorsky, Kyiv Polytechnic Institute, Representation of the Polish academy of Sciences in Kyiv, Warsaw Polytechnic and others.

The purpose of the Conference is to discuss problems and development prospects of renewables. Among them are electricity production, wide use of bioenergy resources, heat supply systems and utilization of the heat of the Earth by harnessing solar power, wind power and hydropower potential, as well as measures aimed at energy saving and energy efficiency.

The event was attended by about 400 scientists, representatives of higher education institutions, research institutes and organizations from Ukraine, Lithuania, Germany, Poland, Uzbekistan, the Czech Republic and Sweden.

In the resolution of the conference, one of the leading areas of scientific research is the creation and rational location of sustainable combined local power systems with renewable sources of various nature.



The scientific report of the Director of the Institute of Energy, Automation and Energy Saving of NULES of Ukraine, **Professor Viktor Kaplun**, accompanied by presentation materials, was devoted to the proposed energy management system with control components to increase the efficiency for small objects by coordinating supply and demand in real time.

It is necessary to bring educational and training programs in line with current domestic needs and the most progressive world trends for the successful implementation of scientific and practical experience in the field of renewable energy and energy efficiency in research, design, industrial and business structures of the public and private sectors of Ukraine,

Particularly relevant was the topic of the report «Scientific and Methodological justification content of the program of

educational training for installers of solar power stations», which was presented by **Professor Viktor Kaplun**, Associate professors **Svitlana Makarevych** and **Olena Shelimanova**.

The speakers focused on innovative scientific and methodological approaches implemented in the international Project ERASMUS+ «Vocational Education and Training For Green and Smart Energy in Buildings» (VET) in accordance with the Agreement with the European Education and Culture Executive Agency (EACEA) under the powers delegated by the European Commission.

The image shows a Zoom conference interface. The main window displays a presentation slide with a diagram. The diagram is titled "ОСВІТНЯ ПЛАТФОРМА ІНСТАЛЯТОР ФОТОЕЛЕКТРИЧНИХ СТАНЦІЙ" (Educational Platform for Solar Station Installers). It features a central box with arrows pointing to three surrounding boxes: "Навчальна програма" (Educational Program), "Бази інженерних та наукових проєктів у сфері сонячної енергетики" (Bases of engineering and scientific projects in the field of solar energy), and "Інформаційно-комп'ютерні технології навчання" (Information and computer technologies for learning). The "Навчальна програма" box is further divided into "Модульна структура" (Modular structure) and "Різні рівні підготовки" (Different levels of preparation). The "Інформаційно-комп'ютерні технології навчання" box lists "Кадрове забезпечення" (Staffing), "Міжкафедральний освітньо-науковий центр" (Inter-departmental educational and scientific center), and "Інформаційно-комп'ютерні технології навчання" (Information and computer technologies for learning).

The Zoom interface includes a top bar with "Zoom Конференція", "Ви просматриваєте екран Віктора Каплун", and "Настройки просмотра". The bottom bar shows various controls like "Включить звук", "Остановить видео", "Участники", "Вопросы и ответы", "Чат", "Демонстрация экрана", "Запись", "Показать субтитры", "Перерыв", "Реакции", "Приложения", and "Выйти". The bottom right corner shows the time "11:39" and date "18.05.2023".